THE CONSORTIUM

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Reach out and follow us on our social channels

Co-funded by the European Union

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Non-Terrestrial Networks natively part of 6G

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VISION

6G-NTN plans the native integration of **Non-Terrestrial Network (NTN)** component into the future **6G infrastructure** and best meet the needs of vertical industries and consumers. The project aims to design and validate NTN's key technical, regulatory, and standardisation enablers, focusing on **multidimensional network infrastructure, multi-constraint RANs, and multi-user terminals**.

INNOVATION POTENTIAL

- Spectrum coexistence of NTN and TN
- 3D TN / NTN network architecture
- Seamless and transparent service continuity
- Reliable positioning (GNSS independent)
- Flexible software defined payload
- VNF orchestration, AI-Enhanced RIC
- Fast adaptation to traffic variations
- TN / NTN Edge computing
- Compact terminals
- Light indoors and in-vehicle
- Throughput enhancement

THE APPLICATION OF 6G NTN: 6G-NTN USE CASES

#1
- Maritime coverage for search and rescue coast guard intervention

#2
- Autonomous power line inspection using drones

#3
- Urban air mobility

#4
- Adaptation to public protection and disaster relief or temporary events

#5
- Consumer handheld connectivity and positioning in remote areas

#6
- Continuous bi-directional data streams in high mobility

#7
- Direct communication over satellites

Read more

6G-NTN ARCHITECTURE